

Notice of Allowability

Application No.

09/922,990

Examiner

Paulos M. Natnael

Applicant(s)

KEATING ET AL.

Art Unit

2614

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to interview of June 9, 2005.
2. ☒ The allowed claim(s) is/are 23-40, renumbered as 1-18.
3. ☒ The drawings filed on 03 August 2001 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☒ Interview Summary (PTO-413), Paper No./Mail Date 6-9-05.
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____

Paulos M. Natnael
Primary Examiner
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DETAILED ACTION

Allowable Subject Matter

1. Claims **23-40** are allowed.
2. The following is an examiner's statement of reasons for allowance: the prior art fails to disclose the combination of the following system for correcting a jittered signal, comprising a counter, a rising edge detector, a falling edge detector, a rising edge position adjuster to receive the detection of the rising edge from the rising edge detector, to receive the count from the counter, to determine a rising edge count, to determine whether the rising edge count is within a programmed rising edge window, and to output a center position of the rising edge window as a jitter corrected rising edge position; and, a falling edge position adjuster to receive the detection of the falling edge from the falling edge detector, to receive the count from the counter, to determine a falling edge count, to determine whether the falling edge count is within a programmed falling edge window, and to output a center position of the falling edge window as a jitter corrected falling edge position; a jitter corrected signal output device to receive the jitter corrected rising edge position from the rising edge position adjuster, to receive the jitter corrected falling edge position from the falling edge position adjuster, and to output the jitter corrected rising and falling edges as a jitter corrected signal by using the count from the counter, as in claim **23**; a counter to receive a base signal and to output a count of the duration of the base signal; a rising edge corrector to receive the jittered signal, to receive the count from the counter, to determine a rising edge count, to output the rising edge count as a jitter corrected rising edge position of the jittered signal if the

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rising edge count is not within a rising edge programmed window, and to output the center of the rising edge programmed window as the jitter corrected rising edge position of the jittered signal if the rising edge count is within the rising edge programmed window; falling edge corrector to receive the jittered signal, to receive the count from the counter, to determine a falling edge count, to output the falling edge count as the jitter corrected falling edge position of the jittered signal if the falling edge count is not within a falling edge programmed window, and to output the center of the falling edge programmed window as the jitter corrected falling edge position of the jittered signal if the falling edge count is within the falling edge programmed window; and a jitter corrected signal output device coupled to receive the jitter corrected rising edge position from the rising edge corrector, to receive the jitter corrected falling edge position from the falling edge corrector, and to output a jitter corrected signal, as in claim 28; and, counting a duration of a base signal, when a rising edge of the jittered signal occurs, determining a rising edge count based on the count of the duration of the active state of the base signal; determining whether the rising edge count is within a rising edge window; if the rising edge count is within a rising edge window, then outputting the center of the rising edge window as a jitter corrected rising edge position or otherwise outputting the rising edge count as the jitter corrected rising edge position; when the falling edge of the jittered signal occurs, determining a falling edge count based on the count of the duration of the active state of the base signal; determining whether the falling edge count is within a falling edge window; the falling edge count is within a falling edge window, then outputting the center of the falling edge window as a jitter

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corrected falling edge position or otherwise outputting the falling edge count as the jitter corrected falling edge position; outputting a jitter corrected signal by matching the count from the counter with the respective jitter corrected rising edge and falling edge positions, as in claim **34**;

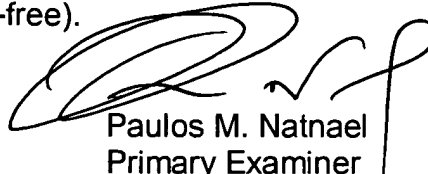
Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Paulos M. Natnael whose telephone number is (571) 272-7354. The examiner can normally be reached on 10:00am - 6:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Miller can be reached on (571)272-7353. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Paulos M. Natnael
Primary Examiner
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June 10, 2005